

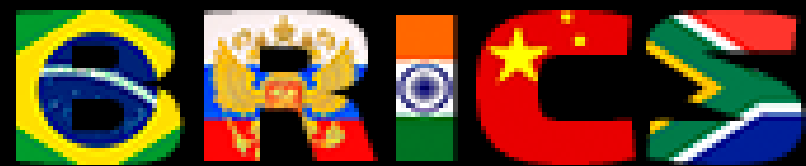


— на шаг впереди!

BRICS STI Framework Programme: Overview

26.10.2022

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STI FRAMEWORK PROGRAMME

- The establishment of BRICS Science, Technology and Innovation Framework Programme was endorsed by BRICS Moscow Declaration on STI Cooperation in 2015;
- Funding agencies from BRICS countries signed Arrangements of BRICS STI Framework Programme in early 2016;
- The Initiative aims to support excellent research on thematic priority areas which can best be tackled by a multinational approach. Funding should facilitate cooperation among the researchers and institutions in the consortia which consist of partners from at least three of the BRICS countries.

BRICS STI Framework Programme



Participants: Research funding agencies from BRICS countries



Department of Science & Technology
Ministry of Science & Technology
Government of India

सत्यमेव जयते



中华人民共和国科学技术部

Ministry of Science and Technology of the People's Republic of China



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



МИНИСТЕРСТВО НАУКИ
И ВЫСШЕГО ОБРАЗОВАНИЯ
РОССИЙСКОЙ ФЕДЕРАЦИИ

F A S I E



Conselho Nacional de Desenvolvimento Científico e Tecnológico



Beijing, January 2016



INOVAÇÃO E PESQUISA



technology innovation
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Department of Biotechnology
Ministry of Science & Technology
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BRICS STI Framework Programme: Pilot phase 2016-2021

4 Calls for multilateral BRICS research projects were launched in 2016-2020:

- **Pilot BRICS STI FP Call (2016):**

- 10 thematic areas
- 320 applications
- 26 projects supported

- **2nd BRICS STI FP Call (2017):**

- 6 thematic areas
- 462 applications
- 32 projects supported

- **3rd BRICS STI FP Call (2019):**

- 13 thematic areas
- 331 applications
- 35 projects supported

- **BRICS STI FP Call 2020:**

Response to COVID-19 global pandemic

- 5 call themes
- 110 applications
- 12 projects supported

Framework conditions:

- **Virtual Common Pot:**

Each research funding agency funds its own teams within a multilateral project

- **Target Group:**

Consortia with partners from at least three BRICS countries

- **Eligible Applicants:**

Researchers, research institutions and entities eligible for funding according to national regulations

- **Independent** expert-based evaluation

- **Joint Decision taking** by BRICS WG on STI Funding

- **Project duration:** 2 or 3 years



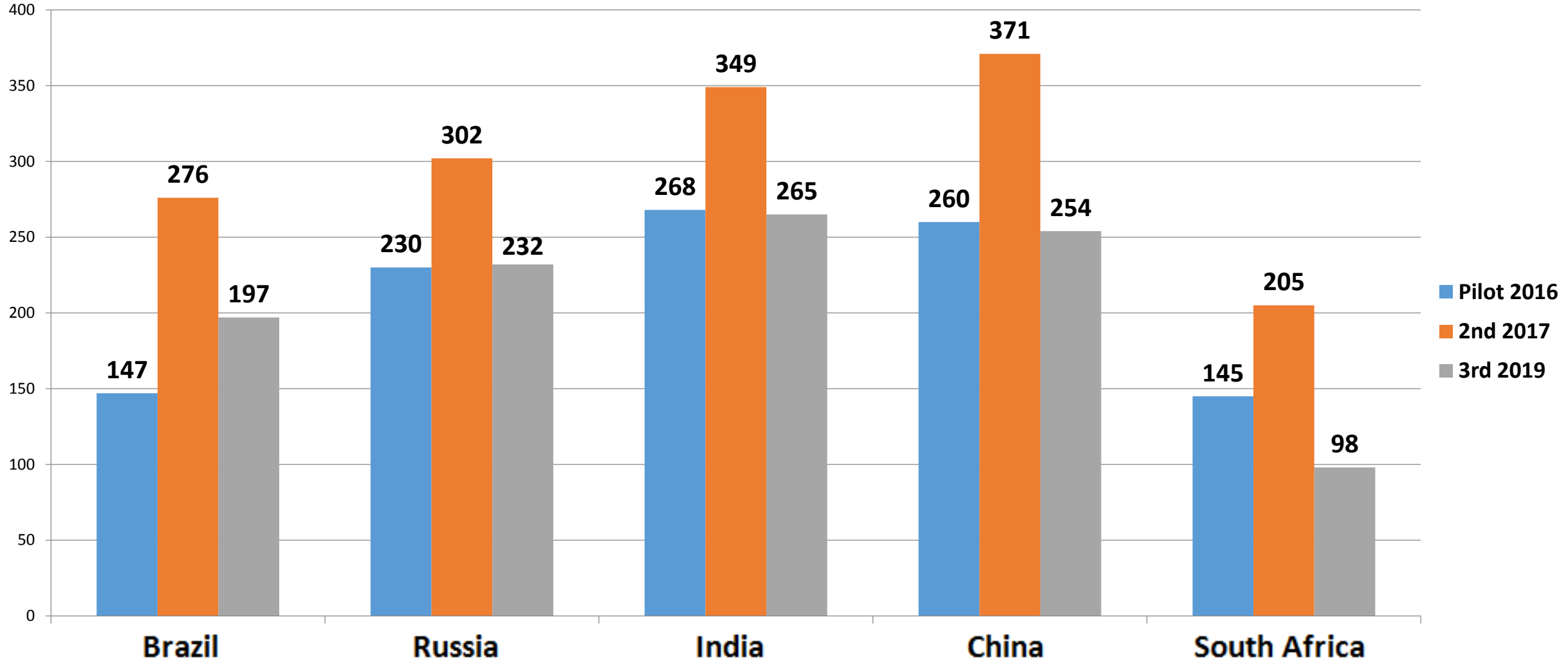
BRICS STI FP pilot phase milestones

- 105 research projects were supported as result of 4 calls in 2016-2021;
- In its first 5 years of implementation the BRICS STI FP has contributed towards formation of a truly BRICS scientific identity;
- More than 3700 collaborators from 5 countries were involved in preparation of 1200 project proposals in response to the BRICS STI FP pilot phase calls;
- More than 1/3 of PIs from supported projects stated that without BRICS STI FP their projects would have never started at any form;
- More than half of projects led to establishment of collaboration at a higher level (e.g. between institutions).



Statistics on thematic BRICS STI FP calls

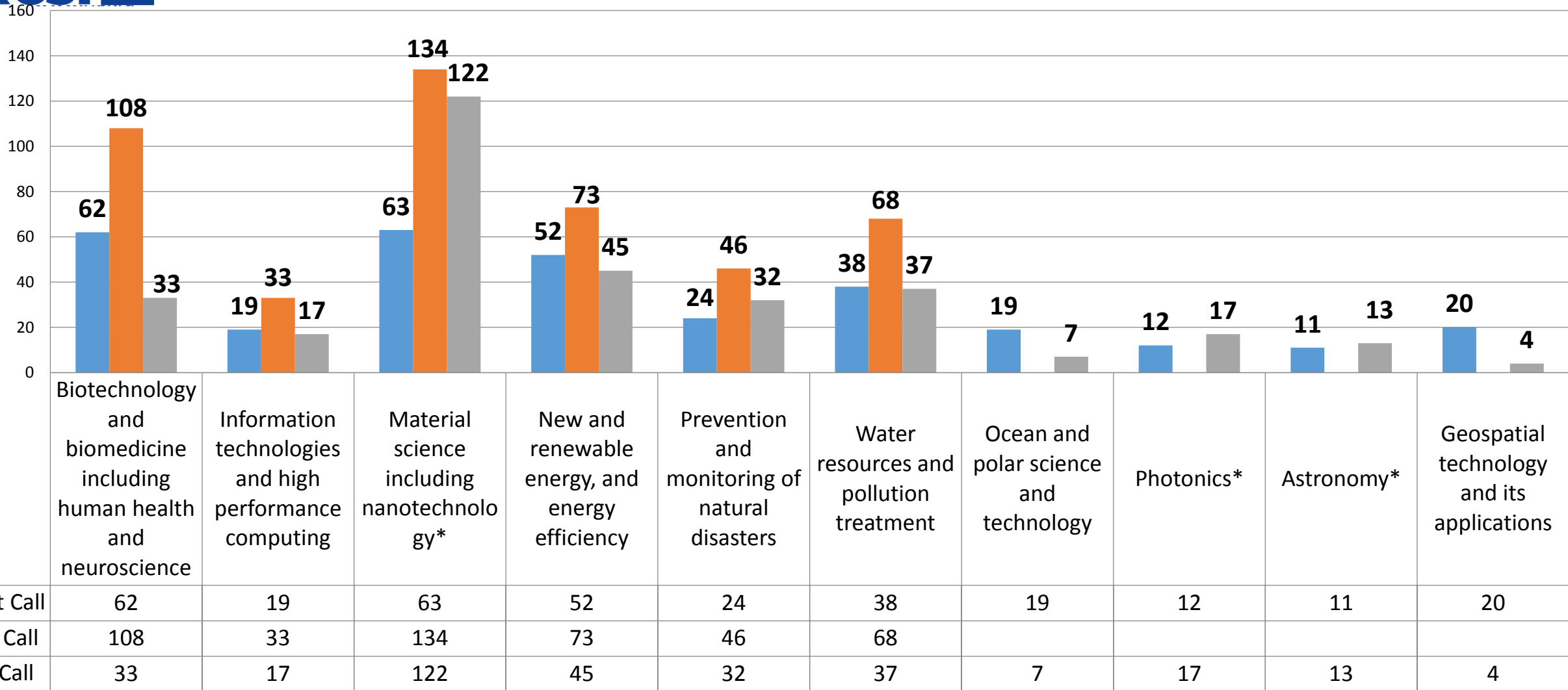
National participants in projects





Statistics on thematic BRICS STI FP calls

Submitted BRICS STI applications per call theme (10 priority thematic areas for BRICS STI cooperation)



* - not supported by Brazil in Pilot Call

Statistics on thematic BRICS STI FP calls



<i>projects</i>	Pilot Call 2016		2nd Call 2017		3rd Call 2019		Total	
	submitted	supported	submitted	supported	submitted	supported	submitted	supported
<i>Thematic areas</i>								
Astronomy*	11	3	-	-	13	2	24	5
Biotechnology and biomedicine including human health and neuroscience	62	5	108	6	33	2	233	13
Geospatial technology and its applications	20	2	-	-	4	2	24	4
Information technologies and high performance computing	19	2	33	3	17	3	69	8
Material science including nanotechnology*	63	6	134	11	122	12	319	29
New and renewable energy, and energy efficiency	52	2	73	6	45	3	170	11
Ocean and polar science and technology	19	1	-	-	7	2	26	3
Photonics*	12	3	-	-	17	3	29	6
Prevention and monitoring of natural disasters	24	1	46	2	32	2	102	5
Water resources and pollution treatment	38	1	68	4	37	3	143	8
<i>Aeronautics</i>	-	-	-	-	3	1	3	1

*- not supported by Brazil in Pilot Call



BRICS STI FP 2020 Call: Response to COVID-19 global pandemic

Response to COVID-19 pandemic coordinated call for BRICS multilateral projects 2020

12 project selected as result of the call

Thematic area	Number of projects
Research and development of COVID-19 vaccines and drugs, including repurposing of available drugs	4
Genomic sequencing of SARS-CoV-2 and studies on the epidemiology and mathematical modelling of the COVID-19 pandemic	3
Epidemiological studies and clinical trials to evaluate the overlap of SARS-CoV-2 and comorbidities, especially tuberculosis	3
AI, ICT and HPC oriented research for COVID-19 drugs design, vaccine development, treatment, clinical trials and public health infrastructures and systems	1

Approx. cumulative allocation per project for 2 years: 500-900k USD

2nd phase of BRICS STI FP implementation tracks

Launch of 5th BRICS STI Call

- 10 thematic areas
- Two-step submission procedure
- 12 research funding agencies
 - New funding agencies (South Africa):
 - Technology Innovation Agency (TIA)
 - Water Research Commission (WRC)
- Science, technology and innovation projects
- Projects duration: 2 or 3 years
- Pre-proposals submission period:
30 August 2021 – 14 October 2021

BRICS STI Flagship projects

Under development...



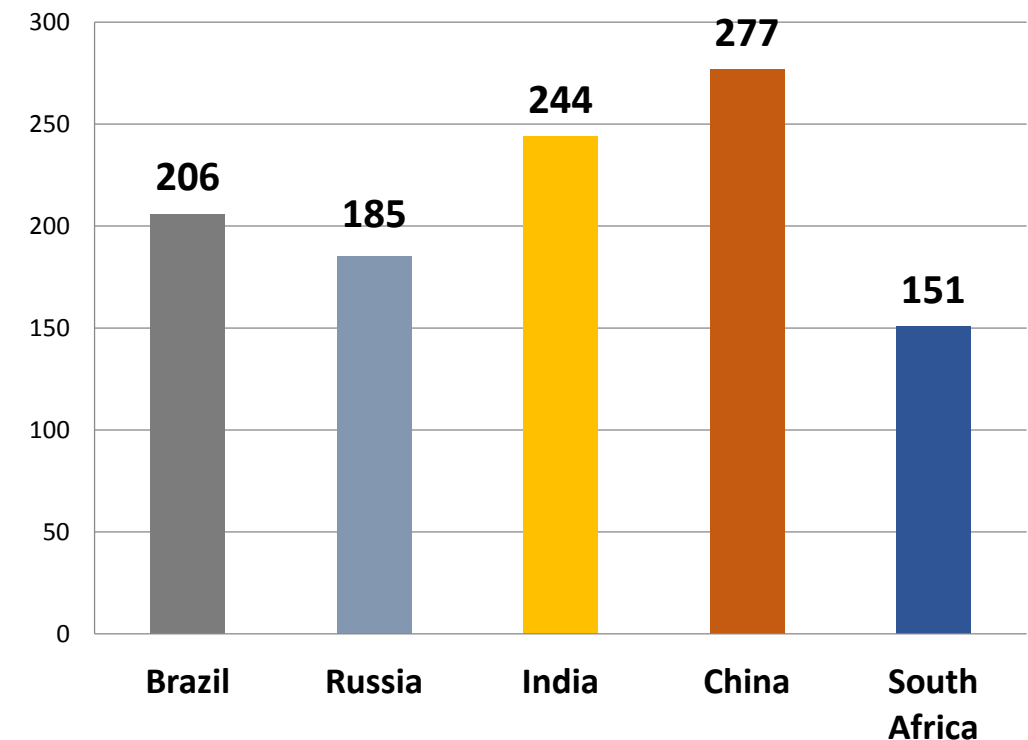


Thematic areas

- Transient astronomical events and Deep Survey science;
- Antimicrobial resistance: technologies for diagnosis and treatment;
- Simulation and big data analytics for advanced precision medicine and public healthcare;
- HPC and BigData for Sustainable Development: Solving Large Scale Ecological, Climate and Pollution problems;
- Innovation and entrepreneurship on Photonics, Nanophotonics and metamaterials for addressing bio-medicine, agriculture, food industry and energy harvesting issues;
- Materials science and nanotechnology for addressing environmental, climate change, agricultural, food and energy issues;
- Renewable energy, including smart grid integration;
- Ocean and polar science and technology;
- Water treatment technology;
- Research in aeronautics and aerospace;

333 applications submitted to the call

National teams in submitted projects





Discussion on the Flagship projects and concept development

BRICS Flagship Projects are research and development projects that are of strategic importance to BRICS member states. A flagship project is inter-disciplinary in scope, addresses an important societal challenge, is led by accomplished scientists (and related personnel) from BRICS countries.

Flagship projects have a very clear and easily identifiable vision with focused, long-term initiatives, that include short- and medium-term objectives and deliverables.

BRICS Flagship Projects aim at the horizontal and/or vertical integration of the value chain and thus at the technological feasibility of systems solutions with a long-term potential for growth.

BRICS Flagship projects are to be selected as a result of a special call for proposals;



Discussion on the Flagship projects and concept development

- BRICS Flagship Projects should lead to a strong impact, whether it will be a technological advancement, societal or scientific impact;
- BRICS Flagship Projects should focus on global challenges, be of mission oriented approach and address common challenges of the BRICS countries;
- Project duration from 3 to 5 years;
- Inter-disciplinary approach, drawing in scientists and related personnel from a range of different disciplines and sectors;
- BRICS Flagship Project consortia must consist of partners from all 5 BRICS countries;
- A greater amount of funding comparing to regular BRICS projects (could be equal to between 200-500 thousand USD/EUR annually per national project partner/team).

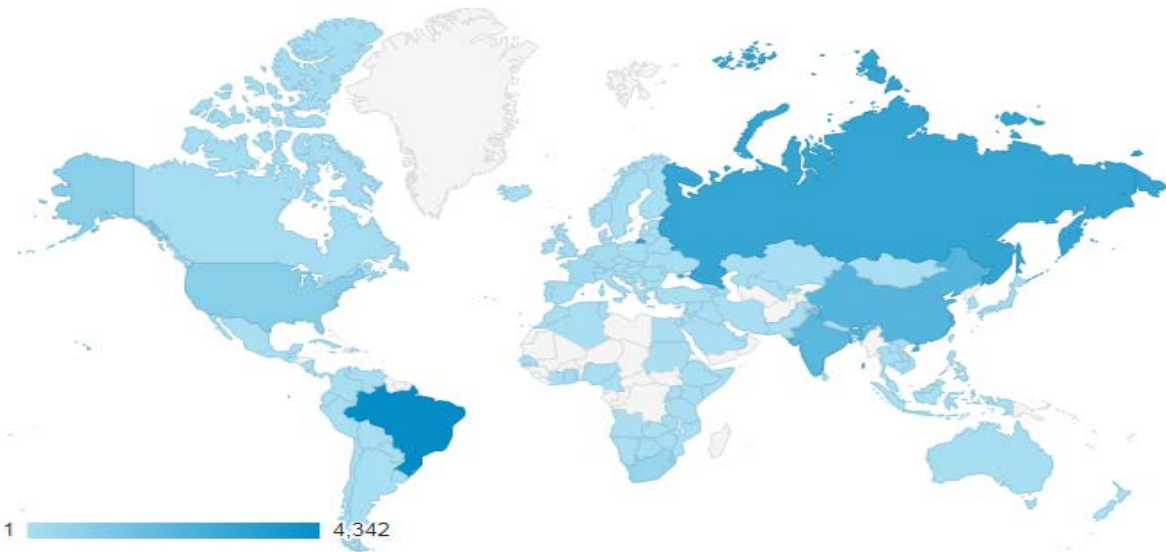
Supporting information



BRICS STI FP website

<http://brics-sti.org>

- Information about BRICS STI FP
- News and events
- Information on supported projects



BRICS STI FP Telegram: https://t.me/brics_sti

BRICS
STI FRAMEWORK PROGRAMME

第五届金砖国家科技创新部长级会议
The 5th BRICS Science, Technology & Innovation (STI) Ministerial Meeting

2017年7月18日 中国·杭州 July 18, 2017 Hangzhou, China

ABOUT BRICS STI NEWS PROJECTS FUNDING OPPORTUNITIES

2nd BRICS Call 2017 is now open!

News 01 September 2017

NRF National Research Foundation
Department of Science & Technology
Ministry of Science & Technology
Government of India
science & technology
Ministry of Science and Technology
of the People's Republic of China
RFBR
CNPq
FASIE
NSFC

BRICS STI Framework Programme - Coordinated call for BRICS multilateral projects 2017 is open until 28th November 2017

Read more...

BRICS STI FP - Pilot Call 2016:

Latest updates

2nd BRICS Call 2017 is now open!

"nanoBRICSrough" - Fundamentals for development of individual nano-objects and nano-devices bottom-up mechanical integration for quantum and non-local phenomena study, nano-electronics and nano-bio-medical diagnostics

"CloudHPC" - Harnessing Cloud Computing to Power

SUBMIT APPLICATION

Call Secretariat

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Thank you!

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